

IN THE CLAIMS

Please enter the following amended Claim 1. A marked-up version can be found at the end of this response.

1. A method for decreasing sulfur levels in a previously hydrodesulfurized mercaptan sulfur containing olefinic naphtha feedstream comprising the steps of passing said mercaptan sulfur containing olefinic naphtha feedstream over a fixed bed catalyst in a three phase, gas, liquid, solid system in the presence of a stripping gas, for a time and temperature and pressure sufficient to decompose at least a portion of said mercaptans to produce olefins, H_2S , as an off gas, and a hydrocarbon product stream having decreased amounts of mercaptan sulfur from said H_2S and said stripping gas and wherein when said stripping gas is a gas stream comprising hydrogen, said fixed catalyst bed comprises (a) a non-reducible metal oxide or (b) a Group VIIIB metal promoted Group VIB catalyst, and wherein when said stripping gas is an inert gas said fixed bed catalyst comprises a Group VIIIB metal promoted Group VIB catalyst.